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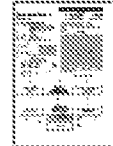
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 Title: **TW0496814B: PADLESS SUBSTRATE CARRIER**

 Country: **TW** Taiwan

 Kind: **B** Patent

 Inventor: **SOMMER, PHILLIP R.**; United States of America  
**BUTTERFIELD, PAUL D.**; United States of America

 Assignee: **OBSIDIAN INC.** United States of America  
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 Published / Filed: **2002-08-01** / 2000-04-13

 Application Number: **TW2000089103430**

 IPC Code: Advanced: [B24B 37/04](#); [B24B 41/04](#); [H01L 21/306](#);

 Core: [B24B 41/00](#); [H01L 21/02](#); more...

 IPC-7: [B24B 7/24](#); [B24B 37/04](#); [H01L 21/304](#);

ECLA Code: None

 Priority Number: 1999-02-25 [US1999000258042](#)

**Abstract:** Apparatus and method of polishing substrates using a carrier that does not contact the backside of the substrate during polishing. The apparatus preferably forms an air bearing between the substrate and the carrier plate during polishing. Alternatively, liquids, or combinations of liquids and gases may be used to form the bearing layer. When a water layer is formed, at least a portion of the carrier plate is formed as a microporous force applicator. The apparatuses are also. Capable of adjusting the force profile that is applied to the substrate so as to differentially polish different areas of the substrate. A containment ring is provided for horizontal containment of the substrate during polishing and to define an area within which the substrate processes during polishing. A containment ring or barrier is also provided for processing with a substrate during polishing.

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 Legal Status:






Gazette date	Code	Description (remarks)	List all possible codes for TW
2002-11-25	GD4A +	Issue of patent certificate for granted invention patent	

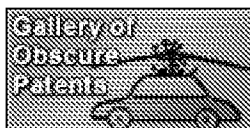
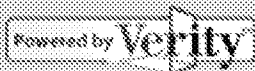
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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Family:

Buy PDF	Publication	Pub. Date	Filed	Title
	US6645050	2003-11-11	2000-11-20	Multimode substrate carrier
	US6276998B1	2001-08-21		
	US6276998	2001-08-21	1999-02-25	Padless substrate carrier
	<b>TW0496814B</b>	2002-08-01	2000-04-13	PADLESS SUBSTRATE CARRIER
	JP2000296457A2	2000-10-24	2000-02-25	PAD-LESS SUBSTRATE CARRIER
	EP1046464A1	2000-10-25	2000-02-24	Substrate carrier
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